### **BIOGRAPHICAL SKETCH**

Name	Position Title
Gallagher, Jane, E.	Health Research Scientist

#### **EDUCATION/TRAINING**

Institution and Location	Degree	Year	Field of Study
State University of NY Potsdam	BS	1976	Biology/Chemistry Civil Engineering (Env.Engineering) Public Health Env. Toxicology
Purdue University W.Lafayette n	MS	1981	
U. Of Utah, SLC City, Utah	MS	1982	
U. Of NC, Chapel Hill, NC	Ph.D.	1986	

### PROFESSIONAL EXPERIENCE

1987-Present Health Research Scientist, Epidemiology Biomarker, Branch Human Studies Division, NHEERL, US EPA RTP, NC

1999-present Adjunct Asst. Professor - UNC School of Public Health- Environmental Sciences and Engineering

1986-1987 National Research Council (NRC) postdoctoral fellow

1982-1986 Biologist, Laboratory of Pulmonary Pathobiology, National Institute Environmental Health

Sciences (NIEHS RTP, NC).

1981- Consultant Wastewater Engineering, General Motors Corp. Massena, NY

1981- 1982 NIOSH traineeship Rocky Mountain Center for Occupational Medicine, Salt Lake City Utah 1979-1981 Research and teaching assistant. Environmental Engineering-Dept of Civil Engineering,

Purdue University W. Lafayette IN.

1976-1979 Laboratory Supervisor, General Motors Corporation, Chevrolet Division, Massena, NY

# **SELECTED AWARDS AND HONORS**

Special Act Award for exceptional mentoring of EPA pos-docs 2005

Special Act Award- Lead Principal Investigator- for preparation of proposal in response to ORD Computational Toxicology RFA 2005.

Special Act Team Award- 2004 Participation of Clinical Asthma Panel studies-for application in larger field studies

Special Act Team Award- 2003 Participation in Biomarker Field Study-Fallon Nevada NHEERL Community Service 2003

Award Office of Research and Development-USEPA Diversity Award 2002

Special Act Award- for Coordination of Biomarker Analysis EPA-CZECH. Republic Studies

Science and Technology Achievement Awards (2) 1994

# **INVITED LECTURES/SYMPOSIA**

"Mechanistic Indicators of Childhood Asthma-A Computational Toxicology Study" US/Canadian Research Studies Workshop. Detroit Michigan October 21, 2005.

"Integrating Biomonitoring Data into Risk Assessment" 31st Annual Meeting of The Toxicology Forum at the Given Institute Aspen, Colorado July10-14, 2005.

Office of Children's Health Protection, Washington, DC "Mechanistic Indicators of Childhood Asthma".2005.

Society of Toxicology Annual Meeting- National Children Study symposium "Validation of non-invasive Biological Sources for Application in Environmental Epidemiology Studies" Baltimore, MD. 2004. Adjunct Asst Professor- Lecturer for graduate level classes

Invited Speaker: Society of Toxicology- National Children Study symposium "Validation of non-invasive

Biological Sources for Application in Environmental Epidemiology Studies" 2004.

Invited Speaker: ORD/Regional- "Biomarkers Approaches/Cumulative Risk Assessment/State of the Science"-Cumulative Risk workshop-2002.

Invited Speaker: Local Community- "Approaches for Assessing Exposures from Multiple Facilities" 2002 Invited Speaker: National Children Studies-"Non-invasive Samples for Gene/Environmental Studies" 2002.

2003

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Invited Speaker: Maximum Allowable Conc. Workshop-Munich, Germany "Animal to Human extrapolation" 2001

Invited speaker: local SOT 2001- "Interfacing Toxicology and Epidemiology through Biomarker Development"

Invited speaker: PM Conference "Air pollution Particles: physicochemical properties, DNA damage, and detection in human and canine tissue" 2000

Invited Speaker: RJ Lee INC Pittsburg PA: "Health Effects Indicators in Human Lung in Relation to Metal Content Particle Number" 2000.

Invited Speaker: ORD Workshop "Community Assessment through Biomarkers and Standard Mortality Records" -RTP-NHEERL 99.

# ASSISTANCE/LEADERSHIP PROVIDED TO THE SCIENTIFIC COMMUNITY

Editorial Board: Mutation Research 2000- present

Journal Reviewer: Toxicology Appl Pharmacology, Environmental Health Perspectives, Carcinogenesis,

Cancer, Epidemiology Biomarkers and Prevention, J. of Toxicology and Environmental Health.

**Environmental Mutagen Society** 

Scientific Mentor: To Recent Graduate Student Service Contracting Authority 2003-2004

Adjunct Asst Professor: Lecturer for graduate level classes

Assistance/Training: NC Department of Environmental and Natural Resources (To Coordinator-Chemical Accident Prevention, Division of Air Quality)- Use of Risk Screening Environmental Indicator Model Assistance/Training: NC Department of Crime and Public Safety Division of Emergency Management Training/oversight/assistance: major professors (NCCU and NCSU)-related to graduate student air pollution graduate and undergraduate research projects.

Research Triangle Scientist-Teacher Partnership Participant

Health Professional Partnership-UNC, NC (A mentoring program for instilling scientific interest to under-represented minorities) 2000-2003.

Coordinator: Science Fair Judges for elementary and middle school (local).

Dissertation advisor: two NCCU master students 1999-2002.

Dissertation Committee member: Andrew Linstrom, Environmental Science and Engineering School of Public Health UNC at Chapel Hill 1997

Expert Panel Member: Workshop on Toxicological Significance of DNA adducts Regulatory Toxicology and Pharmacology Boca Raton Fla. 1995

IARC Invited speaker participant-DNA adduct workshop participant/speaker-Lyon France-1993

# ASSISTANCE/LEADERSHIP PROVIDED TO THE AGENCY

Topic Lead:Office of Research and Development (ORD) Human Health Risk Review- "Oxidative Stress"-2005

Assistance: Office of Science Policy, US EPA-CRISP Computer Retrieval of Information on Scientific Projects- 2004

Assist-Planning of a jointly EPA/Industry(ILSI) sponsored Biomarker Workshop 2004.

Co-chair- Session for Cumulative Risk Assessment Regional Assessment /ORD workshop Dallas, Tx. Nov 3-7, 2002

Participated in writing chapter for NHEERL - Human Health Risk Assessment Strategy Document National Center for Environmental Research-Reviewer for EPA's Star Grant Biomarker Proposals-2003 World Health Organization- Reviewer-NO2-PAH document 2003

Region 10 US EPA - Interface/assist Liaison for ORD Office of Science Policy 2003-2004

Committee organizer-NHEERL Annual Symposium 1998: "Extrapolation in Human Health and Ecological Risk Assessment"

**PUBLICATIONS** (selected publications of total 38 peer reviewed articles and book chapters)

- Kim, S.J., Dix, D.J., Thompson, K.E., Murrell, R.N., Schmid, J.E., Gallagher, J.E., and Rockett, J.C. Gene expression in unstaged head hair follicles plucked from men and women. In press 2006 Annals of Clinical Lab Science
- **Gallagher J.**, R. Sams II, J. Inmon, R. Gelein, A. Elder, G. Oberdorster, and A. K. Prahalad 2003 Formation of 8-oxo-dG in rat lung following subchronic inhalation of carbon black Toxicol Appl Pharmacol. Aug 1;190(3):224-31.
- Becker S., Soukup J., **Gallagher, J.** 2002 Differential particulate air pollution induced oxidant stress in human granulocytes, monocytes and alveolar macrophages. In vitro Toxicology
- Prahalad AK, Inmon J., Dailey L, Madden M, Ghio, A. **Gallagher J**.2001 Air pollution mediated oxidative DNA damage in cell free systems and Human Airway Epithelial cells in relation to particle metal content and bioreactivity Chemical Research and Toxicology
- AK Prahalad, J. Soukup, J. Inmon, R. Willis, A J. Ghio, S. Becker and **J.Gallagher\_1999**. Ambient Air Particles: Effects on cellular oxidant radical generation in relation to particulate elemental chemistry, Toxicology and Applied Pharmacology: 158: 81-91
- A. K. Prahalad, D. K. Manchester, I. C. Hsu, J. Inmon, **J. E. Gallagher** 1999 Human placental microsomal activation and DNA adduction by air pollutants, Environ.Contam. Toxicol 62:93-100
- Madden M and **Gallagher J.E.** 1999 Biomarkers of Exposure In: Air Pollution and Health St. Holgate, HS Koren, J. Samet and R. Maynard, eds Academic Press London 417-430
- Fennel T., **Gallagher**, **J**. Gorelick, N., Swenberg, J. 9 (1996) Toxicological Significance of DNA adducts: regulatory Toxicology and Pharmacology 24, 1996.
- Savela, K., King, L., **Gallagher, J**., and Lewtas, J. (1995) <sup>32</sup>P-postlabeling and HPLC separation of DNA adducts formed by diesel exhaust extracts in vitro and in mouse skin and lung after topical treatment Carcinogenesis Vol 16 pp 2083-2089.
- Izotti, A., S.Deflora, G.L. Petrilli, **J. Gallagher**, M. Rojas, K. Alexandrov, H. Bartsch, and J. Lewtas (1995). Cancer biomarkers in human atherosclerotic lesions: Detection of DNA adducts. Cancer Epidemiology Biomarkers and Prevention vol 4 105-110.